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**LIQUID CRYSTAL DISPLAY DEVICE** (06-281958  
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**Inventors:**

- HASHIMOTO YOSHIHIRO
- HAYASHI HISAO

**Applicants**

- SONY CORP (A Japanese Company or Corporation), JP (Japan)

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**International Class (IPC Edition 5):**

- G02F-001/136
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**JAPIO Class:**

- 29.2 (PRECISION INSTRUMENTS--- Optical Equipment)

**JAPIO Keywords:**

- R011 (LIQUID CRYSTALS)

**Abstract:**

**PURPOSE:** To prevent a picture element fault or an orientation defect by improving the picture element electrode structure of the active matrix type liquid crystal display device.

**CONSTITUTION:** This liquid crystal display device is composed of a pair of substrates 1 and 12 mutually joined through a prescribed gap and a liquid crystal layer 15 held at this gap. Picture element electrodes 2 arranged in the shape of a matrix and a thin film transistor 3 for driving the respective picture element electrodes are formed on the surface of one substrate 1. Counter electrodes 14 are formed on the inner surface of the other substrate 12. The picture element electrode 2 has a laminated structure overlapping a lower layer transparent conductive film 16 with an upper layer transparent conductive film 17. The lower layer transparent conductive film 16 is formed any physical or chemical vapor depositing method. The upper layer transparent conductive film 17 is formed by any coating method, complements the fault of the lower transparent conductive film 16 and can make the surface of the substrate 1 flat as well by absorbing steps. (From: *Patent Abstracts of Japan*, Section: , Section No. FFFFFFFF, Vol. 94, No. 10, Pg. FFFFFFFF, FF, FFFF (FFFFFFFF))

**JAPIO**

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